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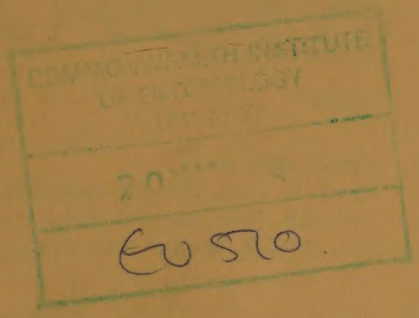
Field crop abstracts



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LANGUAGE SYMBOLS

The language symbols used are listed below. An initial capital letter denotes the main language of a paper, a small letter the language of the summary (ies)

Af	Afrikaans	Eo	Esperanto	My	Malay/ Bahasamalaysia
Al	Albanian	Es	Spanish	Nl	Dutch, Flemish
Ar	Arabic	Fi	Finnish	No	Norwegian
Az	Azerbaijan(i)/Azerbaidzhani/ Azerbaidzhanian	Fr	French	Pe	Persian
		Gr	Greek	Pt	Portuguese
Be	Belorussian	Hu	Hungarian	Ro	Romanian
Bg	Bulgarian	Ia	Interlingua	Ru	Russian
Ch	Chinese	In	Indonesian	Sk	Slovak
Cr	Croat	It	Italian	Sn	Slovene
Cs	Czech	Ja	Japanese	Sr	Serbian
Da	Danish	La	Latin	Sv	Swedish
De	German	Li	Lithuanian	Ta	Tajik/Tadzhik
Ee	Estonian	Lv	Latvian	Tr	Turkish
En	English	Ma	Macedonian	Uk	Ukrainian

ABBREVIATIONS

The abbreviations used for the names of common units, mathematical operations, chemical elements, etc., are in accordance with British Standard 1991 : 1967. Additional abbreviations used follow the CAB Standard List of Abbreviations, which is published in the Annual Index; a copy may be obtained from the Bureau, price £0.15. In addition, the following are used:

FCA	*Field Crop Abstracts*	*HbA*	*Herbage Abstracts*
WA	*Weed Abstracts*		

FIELD CROP ABSTRACTS VOLUME 36, 1983

CONTENTS

Review Article: Applications of yield component analysis to crop research.
By J. Fraser and G.W. Eaton 787

CEREALS

Wheat	1	133	213	273	339	409	519	629	721	799	907	993
Oats	17	142	220	282	349	426	532	638	727	812	917	1009
Rye	18	143	221	283	350	427	533	639	728	813	917	1012
Triticale	19	144	221	284	351	428	534	640	728	814	918	1013
Barley	20	144	222	284	351	428	535	641	729	814	918	1014
Zizania aquatica	–	147	–	–	–	–	–	–	–	–	–	–
Maize	24	148	225	288	354	433	541	646	731	820	922	1021
Sweetcorn	–	155	231	–	360	441	551	653	–	829	930	1031
Rice	34	155	231	293	360	441	552	653	736	830	930	1031
Sorghum	47	162	234	297	364	452	561	660	740	836	937	1049
Pennisetum americanum	48	163	236	298	365	454	564	661	741	838	939	1052
Panicum miliaceum	–	164	–	298	–	454	–	661	742	839	–	–
Panicum miliare	–	–	–	–	–	–	–	–	–	–	–	–
Eleusine coracana	–	164	236	298	366	–	564	661	742	839	939	1054
Minor cereals	49	–	236	298	366	–	–	–	742	–	–	–
Cereals, general	50	164	237	299	366	455	564	662	742	839	939	1054

LEGUMES

Soyabeans	51	165	238	299	367	456	566	664	745	842	941	1056
Groundnuts	60	174	240	302	372	463	574	672	749	851	950	1071
Peas	61	176	241	302	373	465	575	673	753	853	951	1074
Vicia spp.	63	178	242	305	376	468	578	676	755	857	953	1081
Phaseolus spp.	65	179	244	308	376	470	579	681	755	859	954	1083
Vigna spp.	70	182	246	310	377	475	582	681	757	864	957	1088
Trifolium spp.	–	–	–	–	–	–	–	–	–	–	–	–
Vigna subterranea	–	184	–	–	–	–	584	–	–	866	–	–
Cajanus cajan	72	184	246	311	379	477	584	682	758	866	958	1092
Cicer arietinum	74	184	246	312	379	478	585	682	758	866	–	1092
Lens culinaris	75	185	–	312	380	479	585	682	–	868	958	–
Lupinus spp.	75	185	246	313	380	479	585	683	759	868	958	1093
Minor legumes	–	–	247	313	380	–	–	–	759	–	–	–
Legumes, general	76	185	247	314	385	481	587	684	760	869	959	1094

ROOT CROPS

Sugarbeet	76	186	247	314	385	481	587	685	760	870	959	1096
Fodder beet	–	–	249	315	386	483	590	686	761	871	962	1099
Turnips and swedes	79	–	–	–	–	–	590	–	762	–	962	1099
Potatoes	79	187	249	315	386	484	590	687	762	872	962	1100
Carrots	–	–	–	–	–	–	–	–	–	–	–	–
Sweet potatoes	84	190	253	319	389	488	597	692	765	878	967	1106
Cassava	84	190	253	320	389	489	598	692	765	878	968	1107
Yams	87	191	254	321	–	490	598	–	765	879	969	1108
Colocasia esculenta	87	–	257	–	–	490	599	693	766	879	–	1108
Minor root crops	–	–	–	–	–	–	–	–	–	–	–	–
Root crops , general	88	–	–	321	–	–	–	693	766	880	–	–

FIBRE PLANTS

Cotton	88	191	257	321	389	491	599	693	766	880	969	1108
Fibre flax	91	–	258	322	391	493	603	702	767	882	971	1115
Hemp	–	194	258	323	–	493	603	702	–	883	–	1115
Jute	91	194	–	–	–	494	603	–	–	883	–	1115
Minor fibre plants	–	–	–	–	–	–	–	–	–	–	–	–
Fibre plants, general	92	–	259	–	–	–	–	–	–	–	–	–

OIL PLANTS

Ricinus communis	93	194	259	323	391	494	603	702	768	883	972	1115
Sesame	93	194	–	323	392	495	604	–	–	883	973	1116
Oilseed flax	–	195	259	323	392	495	604	703	768	883	973	1116
Safflower	93	195	–	323	392	495	604	–	768	883	973	1116
Sunflower	93	195	259	324	392	495	604	703	768	883	973	1116
Rape	95	196	260	325	394	497	606	–	772	886	974	1119
Minor oil plants	–	–	–	325	394	–	–	–	–	–	–	–
Oil plants, general	98	197	261	325	395	498	–	704	–	–	976	1121

MISCELLANEOUS CROPS

Tobacco	99	197	261	326	395	499	608	704	773	887	976	1121
Brassica oleracea	–	–	–	–	–	–	–	–	–	–	979	–
Fodder radish	–	–	–	–	–	–	–	–	–	–	–	–
Buckwheat	107	199	263	329	398	502	–	–	774	889	979	–
Other crops	–	–	263	–	–	–	–	–	–	–	–	–
Miscellaneous crops, general	–	–	–	–	–	–	–	–	–	–	–	–
GREEN MANURES	–	–	–	–	–	–	–	706	775	–	979	–
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CROP BOTANY

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CAB STANDARD LIST OF ABBREVIATIONS

AAS	atomic absorption spectrometry
ABA	abscisic acid
a.c.	alternating current
ACTH	adrenocorticotropic hormone
ad lib.	ad libitum
ADP	adenosine diphosphate
a.e.	acid equivalent
a.i.	active ingredient
AI	artificial insemination
alt.	altitude
a.m.	*ante meridiem*
approx.	approximately
aq.	aqueous
ATP	adenosine triphosphate
Aug.	August
av.	average
BOD	biochemical oxygen demand
b.p.	boiling point
c.	circa
CA	controlled atmosphere
cAMP	cyclic adenosine monophosphate
CEC	cation exchange capacity
cf.	compare
CF	crude fibre
CGR	crop growth rate
CNS	central nervous system
COD	chemical oxygen demand
coeff.	coefficient
col.	coloured
conc.	concentrated
const.	constant
CP	crude protein
CR	conception rate
cryst.	crystalline
CSIRO	Commonwealth Scientific and Industrial Research Organization [Australia]
cv.	cultivar
CV	coefficient of variation
d.b.h.	diameter at breast height
d.c.	direct current
DCP	digestible crude protein
DDM	digestible dry matter
DE	digestible energy
Dec.	December
DHIA	Dairyherd Improvement Association
DM	dry matter
diam.	diameter
dil.	dilute
DMSO	dimethyl sulphoxide
DNA	deoxyribonucleic acid
DOCA	desoxycorticosterone acetate
DOM	digestible organic matter
DTA	differential thermal analysis
E.	east
ED	effective dose
EDTA	ethylenediaminetetracetic acid
EEC	European Economic Community
e.g.	for example
Eh	oxidation-reduced potential
ESP	exchangeable sodium percentage
et al.	et alii
f.	*forma*
F	filial generation
F	inbreeding coefficient
FAD	flavin adenine denucleotide
FAO	Food and Agriculture Organization
FCM	fat-corrected milk
FDA	Food and Drug Administration
Feb.	February
FGA	fluorogestone acetate
FMN	flavin mononucleotide
f.p.	freezing point
FSH	follicle stimulating hormone
FSHRH	FSH-releasing hormone
f.sp.	*forma specialis*
FU	food unit/fodder unit
FYM	farmyard manure
g.b.h.	girth at breast height
gen.	genus
GLC	gas-liquid chromatography
GnRH	gonadotropin-releasing hormone
Gram+	Gram positive
Gram−	Gram negative
h^2	heritability
Hb	haemoglobin
HCG	human chorionic gonadatropin
ht.	height
ICSH	interstitial cell stimulating hormone
i.e.	that is
IR	infrared
IU	international unit
IVT	Illini variable temperature
Jan.	January
LAI	leaf-area index
LAR	leaf-area ratio
lat.	latitude
LC	lethal concentration
LD	lethal dose
LH	luteinizing hormone
LHRF	LH-releasing factor
LHRH	LH-releasing hormone
loc.cit.	place cited
long.	longitude
M[small cap]	molar
MA	megestrol acetate
m.a.i.	mean annual increment
MAP	6-α-methyl-17α-acetoxy-progesterone
max.	maximum
m.c.	moisture content
ME	metabolizable energy
MGA	melengestrol acetate
min.	minimum
mol.	molecular
m.p.	melting point
MS	mass spectrometry
MU	mouse unit
N.	north
N[small cap]	normal [concentration]
NAD+	nicotinamide adenine dinucleotide (oxidized form)
NADH	nicotinamide adenine dinucleotide (reduced form)
NADP+	nicotinamide adenine dinucleotide phosphate (oxidized form)
NADPH	nicotinamide adenine dinucleotide phosphate (reduced form)
NAR	net assimilation rate
NE	north-east
NFE	nitrogen-free extract
NMR	nuclear magnetic resonance
Nov.	November
NW	north-west
obs.	observed
Oct.	October
OM	organic matter
opt.	optimum
P	parental generation
P	probability
p.a.	*per annum*
PG	prostaglandin
pH	hydrogen-ion concentration
p.m.	*post meridiem*
PMB	pregnant mare blood
PMS	pregnant mare serum
PMSG	pregnant mare serum gonadotropin
PMU	pregnant mare urine
post-em.	post-emergence
p.p.h.m.	parts per hundred million
p.p.m.	parts per million
ppt.	precipitate
pre-em.	pre-emergence
PVC	polyvinyl chloride
q.v.	which see
RBV	relative breeding value
resp.	respectively
RGR	relative growth rate
RH	relative humidity
RNA	ribonucleic acid
RU	rat unit
S.	south
SAR	sodium absorption ratio
s.d.	standard deviation
SE	south-east
s.e.	standard error
Sept.	September
SNF	solids not fat
sol.	solution
sp.	species
sp.gr.	specific gravity
SSP	soluble sodium percentage
s.t.p.	standard temperature and pressure
str.	strain
SW	south-west
syn.	synonym
TDN	total digestible nutrients
temp.	temperature
TG	thermogravimetry
TLC	thin-layer chromatography
TMV	tobacco mosaic virus
UHT	ultra-high temperature
USDA	United States Department of Agriculture
UV	ultraviolet
var.	variety
VFA	volatile fatty acids
viz.	namely
vol.	volume
v.p.m.	volume per million
vs.	versus
v/v	volume/volume
W.	west
WHO	World Health Organization
wk	week
w.p.	wettable powder
wt.	weight
w/v	weight/volume
w/w	weight/weight
yr	year

April 1977

ERRATA

(lines are counted from the beginning of the bibliographic data in each item.)

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Page	*Abstract*	*Line*	
3	27	2	For **'dte'** read **'date'**
20	189	8,9	To read ' . . . than in *Triticum* spp. Grain lysine contents were 3.36 and 3.55% of the CP in 2 cv.'
34	340	1	For **'Engergy'** read **'Energy'**
81	827	1	For 'ROWBERRYY' read 'ROWBERRY'
101	1031	2	For **'harveting'** read **'harvesting'**
101	1038	8	For 'seeds' read 'seedlings'
102	1046	2	For **'phosphorous'** read **'phosphorus'**
102	1046	9	For 'P_20_5' read 'P_2O_5'; for 'K_20' read 'K_2O'
102	1048	10	For 'P_20_5' read 'P_2O_5'; for 'K_20' read 'K_2O'
116	1196	–	Delete and recycle under new F04 coding 50 003700
274	2750	1	For 'VAACNHAOVAAC' read 'VANOVA'
352	3521	9	For 'grain' read 'grown'
368	3676	7	For 'Cerasan' read 'Ceresan'
389	3889	5	For 'Raleight' read 'Raleigh'

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